

Calibration Data Access

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Calibration Data Access Overview

E/M testing begins November, 1997. E/M test data are to be received at JPL from LMIRIS on tapes via Fed-Ex.

E/M test data are to be stored at JPL using LMIRIS software and a COTS product (ObjectStore).

Access will be provided for Team members to E/M test data through rlogins, the LMIRIS software, and ftp.

New ObjectStore software will be developed and tested at JPL using E/M test data.

F/M testing begins December, 1998. F/M test data are to be received at JPL from LMIRIS on a medium TBD (ethernet?).

F/M test data are to be stored at JPL using the new JPL software and ObjectStore.

Access will be provided for Team members to F/M test data through a web-browser-based point-and-click interface.

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Current Status

Re software inherited from LMIRIS:

ObjectStore installed, functioning

Sample database from LMIRIS "recovered" (from backup)

Compiled DB storage/retrieval software

Learning to use DB storage/retrieval software

GUI not yet running

Re new JPL software:

Requirements in rough draft form

Alternative implementation approaches being considered

Will reuse some LMIRIS code

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Science Team Interactions

Provide inputs to the "AIRS Pre-flight Software Requirements Document"
[Nov. 15 - Dec. 15, 1997]

Access and download E/M and Flight Model experiment data
[Dec. '97 on]

Provide feedback on the user interface (prototype development)
[May - Sept., '98]

Test external interface to JPL database
[Oct. '98]

Validate (and contribute) analysis products
[Dec. '98 on]

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ObjectStore (supplemental view-graph)

ObjectStore...

is a commercial, off-the-shelf ("COTS") product produced by, and available from, ODI (Object Design, Inc.).

is an object-oriented database product (it stores "objects", i.e., arbitrary structures).

uses a C++ Application Programmer's Interface (API); a JAVA API is also available.

was selected for its speed, its power (extensibility), and for compatibility with LMIRIS.